

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
VPI/95-09 DIVSERIAL NO.
09/431,469SECOND SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

APPLICANTS

David M. Armistead et al.

FILING DATE

November 1, 1999

GROUP

1631

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>msy</i>	4,833,233	5/23/89	Carter	530	363	8/20/87
<i>msy</i>	5,025,388	6/18/91	Cramer, III	364	496	8/26/88
<i>msy</i>	5,331,573	7/19/94	Balaji	364	496	12/14/90
<i>msy</i>	5,353,236	10/4/94	Subbiah	364	499	4/23/92

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>msy</i>	WO94/25860	11/10/94	PCT	G01N	24/00		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
<i>msy</i>	Andrus, M.B. and Schreiber, S.L., "Structure-Based Design of an Acyclic Ligand That Bridges FKBP12 and Calcineurin" <i>J. Am. Chem. Soc.</i> , 115, pp. 10420-10421 (1993).
892 1/4/01 <i>msy</i>	Barford, D. and Keller, J.C., "Co-crystallization of the Catalytic Subunit of the Serine/Threonine Specific Protein Phosphatase 1 from Human in Complex with Microcystin LR", <i>J. Mol. Biol.</i> , 235, pp. 763-766 (1994)
<i>msy</i>	Bierer, B.E. et al., "Cyclosporin A and FK506: Molecular Mechanisms of Immunosuppression and Probes for Transplantation Biology" <i>Curr. Opinion in Immunology</i> , 5, pp. 763-773 (1993).
<i>msy</i>	Caffrey, M.V. et al. "Synthesis And Evaluation Of Dual Domain Macrocyclic FKBP12 Ligands" <i>Bioorg. Med. Chem. Lett.</i> , 4, pp. 2507-2510 (November, 1994).
<i>msy</i>	Campbell, I.D. and Dwek, R.A., "Diffraction" in <i>Biological Spectroscopy</i> , The Benjamin/Cummings Publishing Company, Menlo Park, CA, pp. 299-326 (1984).
892 1/4/01 <i>msy</i>	Griffith, J.P. et al., "X-Ray Structure of Calcineurin Inhibited by the Immunophilin-Immunosuppressant FKBP12-FK506 Complex", <i>Cell</i> , 82, pp. 507-522 (1995)
<i>msy</i>	Guerini, D. and Klee, C.B., "Cloning of Human Calcineurin A: Evidence for Two Isozymes and Identification of a Polyproline Structural Domain", <i>Proc. Natl. Acad. Sci. USA</i> , 86, pp. 9183-9187 (1989)
<i>msy</i>	Holt, D.A. et al., "Design, Synthesis, and Kinetic Evaluation of High-Affinity FKBP Ligands and the X-ray Crystal Structures of Their Complexes with FKBP12" <i>J. Am. Chem. Soc.</i> , 115, pp. 9925-9938 (1993).

EXAMINER

DATE CONSIDERED

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EXAMINED
INITIALHubbard, M.J. and Klee, C.B., "Functional Domain Structure of Calcineurin A: Mapping by Limited Proteolysis", Biochemistry, 28, pp. 1868-1874 (1989)Kajihara, A. et al., "Protein Modelling Using a Chimera Reference Protein Derived From Exons" Protein Eng., 6, pp. 615-620 (1993).Kissinger, C.R. et al., "Crystal Structures of Human Calcineurin and the Human FKBP12-FK506-Calcineurin Complex", Nature, 378, pp. 641-644 (1995)Kunz, J. and Hall, M.N. "Cyclosporin A, FK506 and Rapamycin: More Than Just Immunosuppression" TIBS, 18, pp. 334-338 (1993).Sharma, R.K. and Wang, J.H., "Calmodulin and Ca²⁺-Dependent Phosphorylation and Dephosphorylation of 63-kDa Subunit-Containing Bovine Brain Calmodulin-Stimulated Cyclic Nucleotide Phosphodiesterase Isozyme" J. Biol. Chem., 261, pp. 1322-1328 (1986).Sträter, N. et al., "Crystal Structure of a Purple Acid Phosphatase Containing a Dinuclear Fe(III)-Zn(II) Active Site", Science, 268, pp. 1489-1492 (1995)Uhlir, U. et al., "Crystallization and Crystallographic Investigations of Ribonucleotide Reductase Protein R1 from *Escherichia coli*" FEBS Lett., 336, pp. 148-152 (1993).Villafranca, J.E. et al., "Protein Serine/Threonine Phosphatases", Current Opinion in Biotech., 7, pp. 387-402 (1996)Wilson, K.P. et al. "Comparative X-ray Structures of the Major Binding Protein for the Immunosuppressant FK506 (Tacrolimus) in Unliganded Form and in Complex with FK506 and Rapamycin" Acta Cryst., D51, pp. 511-521 (July, 1995).

EXAMINER

DATE CONSIDERED 8/31/04

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	
	Balbes, L.M., et al., "A Perspective of Modern Methods in Computer-Aided Drug Design," in "Reviews in Computational Chemistry," K.B. Lipkowitz and D.B. Boyd, Eds., VCH Publishers, New York, 5: 337-379 (1994).
	Bartlett, P.A., et al., "CAVEAT: A Program to Facilitate the Structure-Derived Design of Biologically Active Molecules," in "Molecular Recognition in Chemical and Biological Problems," S.M. Roberts, Ed., Royal Society of Chemistry, Special Publication No. 78: 182-196 (1989).
	Böhm, H.-J., "The Computer Program LUDI: A New Method for the De Novo Design of Enzyme Inhibitors," J. Comp. Aid. Molec. Design, 6: 61-78 (1992).
	Cohen, N.C., et al., "Molecular Modeling Software and Methods for Medicinal Chemistry," J. Med. Chem., 33: 883-894 (1990).

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Mg Brown

DATE CONSIDERED

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1631

<i>msy</i>	Eisen, M.B., et al., "HOOK: A Program for Finding Novel Molecular Architectures that Satisfy the Chemical and Steric Requirements of a Macromolecule Binding Site," <i>Proteins Struct. Funct. Genet.</i> , 19: 199-221 (1994).
<i>msy</i>	Gillet, V., et al., "SPROUT: A Program for Structure Generation," <i>J. Comp. Aid. Molec. Design</i> , 7: 127-153 (1993).
<i>msy</i>	Goodford, P.J., "A Computational Procedure for Determining Energetically Favorable Binding Sites on Biologically Important Macromolecules," <i>J. Med. Chem.</i> , 28: 849-857 (1985).
<i>msy</i>	Goodsell, D.S., and Olson, A.J., "Automated Docking of Substrates to Proteins by Simulated Annealing," <i>Proteins Struct. Funct. Genet.</i> , 8: 195-202 (1990).
<i>msy</i>	Guida, W.C., "Software for Structure-Based Drug Design," <i>Curr. Opin. Struct. Biology</i> , 4: 777-781 (1994).
<i>msy</i>	Kuntz, I.D., et al., "A Geometric Approach to Macromolecule-Ligand Interactions," <i>J. Mol. Biol.</i> , 161: 269-288 (1982).
<i>msy</i>	Lauri, G. and Bartlett, P.A., "CAVEAT: A Program to Facilitate the Design of Organic Molecules," <i>J. Comp. Aid. Molec. Design</i> , 8: 51-66 (1994).
<i>msy</i>	Martin, Y.C., "3D Database Searching in Drug Design," <i>J. Med. Chem.</i> , 35: 2145-2154 (1992).
<i>msy</i>	Miranker, A., and Karplus, M., "Functionality Maps of Binding Sites: A Multiple Copy Simultaneous Search Method," <i>Proteins Struct. Funct. Genet.</i> , 11: 29-34 (1991)..
<i>msy</i>	Meng, E.C., et al., "Automated Docking with Grid-Based Energy Evaluation," <i>Journal of Computational Chemistry</i> , 13: 505-524 (1992).
<i>msy</i>	Navia, M.A. and Murcko, M.A., "Use of Structural Information in Drug Design," <i>Current Opinion in Structural Biology</i> , 2: 202-210 (1992).
<i>msy</i>	Nishibata, Y., and Itai, A., "Automatic Creation of Drug Candidate Structures Based on Receptor Structure. Starting Point for Artificial Lead Generation." <i>Tetrahedron</i> , 47: 8985-8990 (1991).

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MSY

DATE CONSIDERED

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